

## Argonne physicists create landmark accelerator gradient

THE ARGONNE Wakefield Accelerator (AWA) Group has crossed a major frontier in accelerator science: They generated an accelerating gradient five times stronger than that used in traditional linear accelerators.

The gradient – a region of increasing electrical potential – works like an electrical “motor,” transferring enormous amounts of energy to charged particles as they shoot through an accelerator. By substituting a dielectric for the copper medium used to support these accelerating electric fields, Manoel Conde (HEP) and his colleagues in the AWA group, led by physicist Wei Gai (HEP), generated a gradient of 100 megavolts per meter (MV/m); traditional linear accelerators generally cannot support a gradient higher than 20 MV/m.

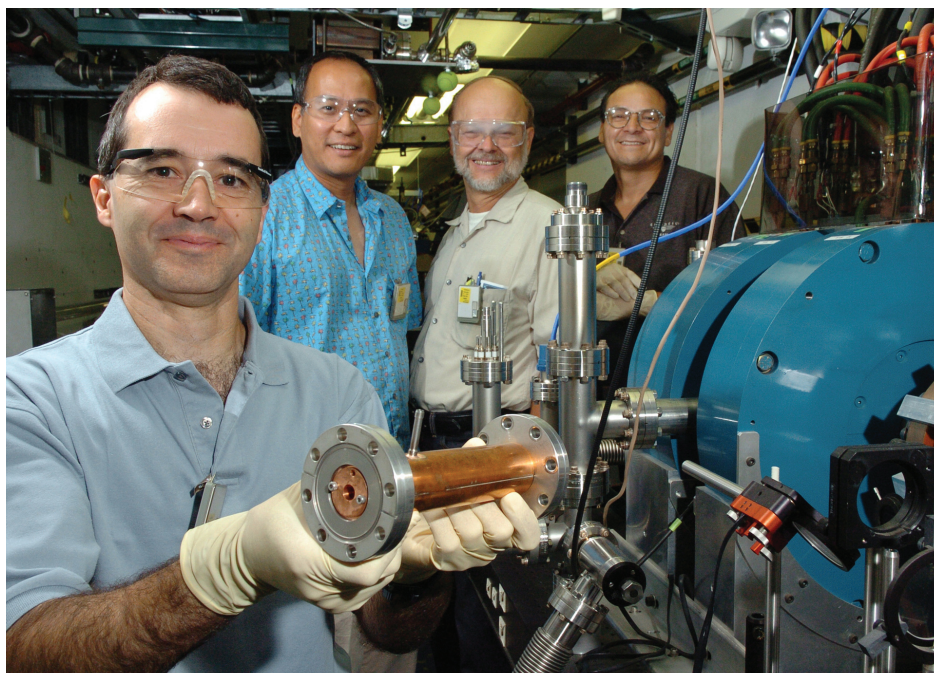
Higher gradients could allow for more compact accelerators with the same or greater energy as today’s high-energy accelerators, which often stretch for miles. Aside from extending the energy frontier, high-gradient acceleration will allow for the miniaturization of the medium- and low-energy accelerators used in hospitals for radiation therapy, improving their accuracy while reducing their cost, Gai said.

High-energy physicists realize they cannot continue their decades-long trend of building ever-longer accelerators, said John Power (HEP), a physicist in the AWA group. He sees projects like CERN’s Large Hadron Collider, with a circumference of about 17 miles, or the proposed 20-to-25-mile-long International Linear Collider (ILC) as nearing the ceiling for an accelerator’s physical size.

“Right now, high-energy physicists are building accelerators that are approaching practical limits in term of their length and cost,” Power said. “We’re pushing technology to the limit and accelerators are getting to be extremely long – to get to the next level we need to raise the gradient.”

Physicists have started to look for ways to make accelerators more powerful. The limiting factor lies in finding a suitable alternative to the traditional copper accelerators that Power called “the workhorses of high-energy physics over the last 50 years.”

Traditionally, copper-based accelerators have operated at



Accelerator physicists Manoel Conde, Zikri Yusof, Richard Konecny and Felipe Franchini (all HEP) stand by the copper-based Argonne Wakefield Accelerator. The wakefield group recently broke the 100 MV/m benchmark for the strength of accelerating gradients by substituting an insulating dielectric for copper. Photo by George Joch.

gradients below approximately 20 MV/m. Recently, accelerator scientists developed an advanced copper accelerator and were able to achieve a gradient of 65 MV/m, above which point the accelerator suffered irreversible damage, according to Power. It is believed that above this level the strong electric fields produce a phenomenon known as field emission, in which electrons circulating in the highly conductive metal get pulled out of the copper surface, generating discharges that can damage the accelerator.

In the quest to achieve a higher gradient, the AWA group turned to dielectrics – or insulating materials – as potential alternatives. “If dielectrics can support high gradients, we’ve got a great shot at a working accelerator,” Power said. “The power sources and the size of the supporting structures are the same as that of traditional accelerators, which is a great strength of the dielectric scheme.”

Although Gai cautioned that other challenges still impede the realization of a high-gradient dielectric accelerator, he agreed with Power’s observation. “This is one of several promising advanced technologies on the horizon, along with laser and plasma acceleration and various types of metallic-based accelerators,” he said.

Unlike traditional accelerators, which employ only one particle beam, wakefield accelerators use two beams: a “drive beam” to create the high gradient and a “main beam” to be accelerated. Within the drive beam, one or several highly charged “bunches” of electrons

are shot through the dielectric structure. Like a speedboat rushing over a lake, each drive bunch leaves behind an electromagnetic wake. The electric gradients produced by these wakes are then used to accelerate the main beam. By synchronizing the emission of each successive drive bunch with the wake’s waves, scientists can create stronger wakes that produce higher gradients.

Although the 100 MV/m figure constitutes a true landmark for accelerator physicists – “it’s a milestone we’ve pursued for 10 years,” Power said – dielectrics or similar materials could produce even higher gradients. The absolute upper bound on solid-based accelerators is believed to be on the order of 10 GV/m, above which point solids are expected to ionize and destabilize. That figure represents a 100-fold gain over the gradients AWA scientists have generated, leaving considerable room for later improvements.

Power believes the successful construction of higher-gradient accelerators will precipitate a revolution, as high-energy physicists – the AWA’s “primary customers” – will gain access to a whole new regime of energies. “Right now,” he said, “the 20-mile ILC is expected to give you about half a tera-electronvolt (TeV) of energy. If you take the same 20 miles and apply high-gradient technology, you can get a couple of TeV and perhaps even more in the future. That opens up many different possibilities.”

Argonne’s wakefield accelerator research is funded by the High Energy Physics Program in DOE’s Office of Science. ■

## Online performance appraisal application available

ARGONNE’S annual performance appraisal process is now underway.

Appraisals cover the period from Oct. 1, 2006, through Sept. 30, 2007. Performance appraisals must be completed for all regular full- and part-time employees who were active as of July 1, 2007. This year’s performance appraisals are due electronically in HR Friday, Dec. 14.

All regular full- and part-time Argonne employees have been given data entry access to their own performance appraisals through Monday, Oct. 15. During this time, employees may enter draft assessments and goals directly into their own performance appraisals. Employees may also be asked to complete a statement of accomplishments.

Supervisors have ultimate responsibility to complete the appraisal. Supervisors and second-level supervisors will continue to have access to the performance appraisals throughout the process.

Employees complete performance appraisals through the Web application using their user names and passwords. Instructions and resources to support employees in the performance appraisal process are available on *Inside Argonne*.

**Performance management training**  
“Performance Management Workshop” (HR 561) supports supervisors in completing the performance appraisal. Two sessions are scheduled:

- Tuesday, Oct. 9, 1 - 4:30 p.m., Building 201, Room 190
- Friday, Oct. 19, 8:30 am - noon, Building 201, Room 190

Register through a Training Management System representative. Special sessions can also be requested for divisions by calling HR/Performance Development at ext. 2-3410. ■

[https://inside.anl.gov/resources/performance\\_appraisals/](https://inside.anl.gov/resources/performance_appraisals/)  
[https://inside.anl.gov/resources/prof\\_dev/courses/performance\\_management.html](https://inside.anl.gov/resources/prof_dev/courses/performance_management.html)

## Job Hazard Questionnaire Moves Online

AN ELECTRONIC version of the Job Hazard Questionnaire (JHQ) is now available, allowing employees to make changes to their JHQ as often as necessary. Although the format for updating JHQs will change, the process will be identical to the paper one.

The paper version of the JHQ had grown to an unwieldy length, said Manager of Environment, Safety and Health Training Eddi Langenberg (See “Job Hazard Questionnaire” on page 3)

### MORE NEWS AND LATE-BREAKING UPDATES:

INSIDE ARGONNE  
[www.inside.anl.gov](http://www.inside.anl.gov)

PC HELPS AVAILABLE TO LAB USERS  
TO ANSWER HOW-TO-QUESTIONS

PC Helps is available to lab users to answer how-to-questions on Word, Excel, Power Point, Access, Adobe Acrobat or any other of up to 160 commercial off-the-shelf software applications. They can be reached by calling ext. 2-9999 (option 1) Monday – Friday between 7 a.m. and 7 p.m. There is also a searchable knowledge base online where answers to many common questions relating to Microsoft and blackberry products can be found.

Users can also sign up to receive free periodic e-tips from PC Helps that inform subscribers of features of desktop applications used every day.

CHORAL GROUP TO HOLD  
FALL CONCERT

The Argonne Choral Group has rescheduled its fall concert for Thursday, Oct. 11, at 6 p.m. in the Building 362 Auditorium. The theme of the concert is “Americana.” A variety of music will be performed, including such pieces as “Shenandoah” and the Eagles’ “Seven Bridges Road.

A \$5 donation at the door is requested.

The club is now planning year-round performances and is always looking for more singers of any and all talent levels. Rehearsals are held Mondays and Thursdays from 11:45 a.m. to 12:30 p.m. in the Building 362 Auditorium.

For more information, contact Pat Garner (NE) at [plgarner@anl.gov](mailto:plgarner@anl.gov).

METLIFE REPRESENTATIVE TO VISIT  
FOR ONE-ON-ONES

A representative from MetLife Auto & Home will visit Argonne Wednesday, Oct. 10, to meet with individual employees for insurance comparisons and quotes for the “METPAY” group automobile and homeowner’s insurance program.

To schedule an appointment, call Craig Riddick at (630) 810-0346 ext. 143.

Employees can also receive a quote over the phone by calling 1 (800) 438-6388.

WORKSHOP PROVIDES STEPS TO A  
SECURE RETIREMENT

Employees are invited to “Six Steps to a Secure Retirement,” a workshop offered by Wachovia Securities (a Prudential representative).

The workshop provides guidance on how to invest money for retirement and is intended for all ages. The workshop has been highly recommended by Argonne employees who attended in the past.

The one-hour workshops will be held Wednesdays at noon on Oct. 17 and Nov. 7 and 21 in the Building 213 Cafeteria private dining room. Seating is limited.

For a reservation, call Cheryl at (630) 285-8876.

CIS CLASSES

**“Intermediate Excel 2003”** (CIS126)

In this course students will learn to streamline and enhance spreadsheets with templates, charts, graphics and formulas, as well as apply visual elements and advanced formulas to a worksheet to display data in various formats.

- Prerequisite: Introduction to Excel.
- Dates: Tuesday, Oct. 9, 8:30 a.m. – 4:30 p.m.
- Location: Building 201, Room 167
- Class Size: Limited to 8
- Instructor: DDF computer training
- Cost: \$240

**“Intermediate Access Version 2003”** (CIS129)

Students will learn to create new databases, tables and relationships, as well as working with and revising intermediate-level queries, forms and reports. They will also learn how to integrate Access data with other applications such as Word or Excel.

- Prerequisite: Introduction to Access.
- Dates: Wednesday, Oct. 10, 8:30 a.m. – 4:30 p.m.
- Location: Building 201, Room 167
- Class Size: Limited to 8
- Instructor: DDF computer training
- Cost: \$240

**“Advanced PowerPoint 2003”** (CIS132)

Students will learn how to enhance presentations with features that will transform basic presentations into those with a powerful means of communication. They will learn to use features that draw, animate, and format presentations with professional-quality content.

- Prerequisite: Introduction to PowerPoint.
- Dates: Thursday, Oct. 11, 8:30 a.m. – 4:30 p.m.
- Location: Building 201, Room 167
- Class Size: Limited to 8
- Instructor: DDF computer training
- Cost: \$240

**“Beginning Unix”** (CIS564)

Learn the basic concepts required for using Unix computer systems. This class will be a general overview of Unix commands for file and process management, printing and communicating.

- Dates: First session: Tuesday, Oct. 16, 9 a.m. – noon; second session: Thursday, Oct. 18, 9 a.m. – noon.
- Note: This class consists of two three-hour sessions for a total of six hours.
- Location: Building 201, Room 167C
- Class Size: Limited to 8
- Instructor: CIS staff
- Cost: none

**“vi Editor in Unix”** (CIS567)

The vi Editor is the standard editor with Unix; all Unix implementations come with vi. Students in this class will learn the basic commands of vi so they can use vi to create and edit files in Unix.

- Prerequisite: A general knowledge of Unix, especially Unix file management commands.
- Dates: Friday, Oct. 19, 1 – 4 p.m.
- Location: Building 201, Room 167C
- Class Size: Limited to 8
- Instructor: CIS staff
- Cost: none

The CIS computer class descriptions, schedules and enrollment forms are available online at [inside.anl.gov/cis/services/computer\\_training/cis\\_course\\_schedule.html](http://inside.anl.gov/cis/services/computer_training/cis_course_schedule.html)

To enroll in courses:

1. Discuss with and obtain approval through your division/department office.
2. Complete the enrollment form (be sure to obtain the appropriate cost code and signature).
3. Give the completed form to your Training Management System (TMS) representative. (TMS representative should forward a copy of the form containing cost code information to Diane Cavazos (CIS), Building 201.)
4. If you are unable to attend a course, cancel your enrollment at least seven days prior to the session or arrange for someone else in your division to attend in your absence. Failure to do so will result in your division or department being charged for the course.

CIS reserves the right to cancel any class with too few participants.

*Important: Students must be enrolled through the TMS system to officially reserve a space in any course. Confirm through a TMS representative that this has been done.*

HR CLASSES

- “Performance Management” (HR561)  
Tuesday, Oct. 9, 1 - 4 p.m. or Friday, Oct. 19, 8:30 a.m. - noon, Building 201, Room 190.
- “Art of Giving and Receiving Feedback” (part of the Critical Conversation Series) (HR397) – Tuesday, Nov. 13, 1 - 3:30 p.m., Building 201, Room 190.

Class descriptions, future courses and registration forms are online at [https://inside.anl.gov/resources/prof\\_dev/courses/course\\_schedule.html](https://inside.anl.gov/resources/prof_dev/courses/course_schedule.html). Complete the registration form and forward to your Training Management System representative. Contact Betty Iwan at [eiwan@anl.gov](mailto:eiwan@anl.gov) for more information.

FREE FLU VACCINES TO BE OFFERED  
TO EMPLOYEES

Regular employees of Argonne, DOE and the University of Chicago are eligible to receive a free flu shot from the Medical Department on the following days:

**TUESDAY, OCT. 9:**

- 8:30 -11:30 a.m., Ages 57 and over
- 1 - 4 p.m., Ages 45-56

**WEDNESDAY, OCT. 10:**

- 8:30 -11:30 a.m., Ages 44 and under
- 1 - 4 p.m., All ages

**FRIDAY, OCT. 12:**

- 1 - 4 p.m., All ages

Flu shots will be given out only on the days and times announced, without exception.

L’OREAL ACCEPTING APPLICATIONS  
FOR 2008 FELLOWSHIPS FOR  
WOMEN IN SCIENCE

Now in its fifth year, the L’Oreal Fellowships for Women Program aims to annually recognize, reward and support five female postdoctoral researchers in the United States who are pursuing careers in the life and physical/ material sciences, as well as mathematics, engineering and computer science. L’Oréal USA awards each recipient \$40,000 to apply toward her postdoctoral research.

The five beneficiaries will be invited to attend a week of events in New York City that include an awards ceremony, professional development workshops, media training and networking opportunities. In 2008 these workshops, which are facilitated by the American Association for the Advancement of Science, will encompass job search techniques, interviewing skills, budget development for grant requests and strategies for peer-reviewed publication.

The L’Oréal USA Fellowships for Women in Science program is open to women postdoctoral researchers only. Candidates interested in applying may visit the L’Oréal USA Fellowships for Women in Science Web site at [www.lorealusa.com](http://www.lorealusa.com) to obtain more information about program eligibility and requirements.

All applications must be postmarked by Oct. 31.

SINGERS NEEDED FOR VETERAN'S  
DAY OBSERVANCE

Singers are needed for the Veteran’s Day Observance to be held Thursday, Nov. 8.

The National Anthem will be sung in addition to the military service songs.

Rehearsals will be held Mondays and Thursdays beginning Oct. 22 from 11:45 a.m. to 12:30 p.m. in the Building 362 Auditorium. Singers of all skill levels are welcome to honor the nation’s troops in song.

For more information, contact Pat Garner (NE) at [plgarner@anl.gov](mailto:plgarner@anl.gov) or ext. 2-4872.

CIGNA TO PRESENT TELEPHONE  
WELLNESS SEMINAR ON PERSONAL  
SAFETY

CIGNA Behavioral Employee Assistance Program will offer a telephone seminar titled “Personal Safety,” at 1 p.m. Wednesday, Oct. 10. The hour-long seminar will focus on becoming a “tough target” for criminals by increasing awareness of dangerous situations and knowing what to do if an attack is inevitable.

Pre-register online at [ww4.premconf.com/websvp](http://ww4.premconf.com/websvp).

The confirmation code is 6447081.

NOMINATIONS SOUGHT FOR AWARDS

Three award programs are currently seeking nominations:

**Gustavus John Esselen Award for Chemistry in the Public Interest:** This award recognizes a chemist for outstanding achievement in scientific and technical work that contributes to the public well-being. The winner of this award will receive a \$5,000 prize and a medal of recognition.

More information is available online at [www.nesacs.org](http://www.nesacs.org).

Nominations must be received by Monday, Oct. 15.

**Sofja Kovalevskaja Award:** This award offers up to \$2.26 million over five years in “risk capital” for highly acclaimed young researchers from all fields, sub-disciplines and nationalities. The funds enable recipients to conduct independent research and build a team at an installation or institution in Germany, largely unfettered by administrative constraints.

More information is available online at [www.humboldt-foundation.de/en/programme/preise/kova](http://www.humboldt-foundation.de/en/programme/preise/kova).

Applications must be received by Jan. 4.

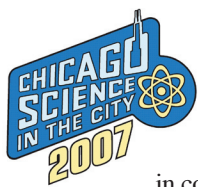
**The \$500,000 Lemelson-MIT Prize:** This prize is awarded to outstanding mid-career inventors who have developed a patented product or process of significant value to society, which could be or has been adopted for practical use. These individuals will receive the prize mid-career, when both the recognition and the cash award can be of significant benefit to their future creativity and productivity.

More information can be found online at [mit.edu/invent/a-prize.html](http://mit.edu/invent/a-prize.html).

Nominations should be sent to Cindy Wilkinson (C&PA), Building 201, Room 258 by Friday, Oct. 26.



## University of Chicago, Argonne, Fermilab to participate in Chicago’s ‘Science in the City’



THE UNIVERSITY of Chicago, Argonne National Laboratory and Fermi National Accelerator Laboratory, in collaboration with businesses, civic, cultural and community organizations, will participate in Chicago’s second annual Chicago Science in the City 2007 event.

Argonne hosted an information booth at the kickoff event, featuring “energy bikes” sponsored by the Division of Educational Programs, fuel-cell demonstrations and compact fluorescent light giveaways. Tours of the laboratory were offered Saturday, Oct. 6.

Chicago Science in the City is a two-week series of events designed to encourage Chicagoans to explore and experience the various fields of science. Because most of the events are free to the public, participants will have the opportunity to experience science first-hand.

Chicago Science in the City runs until Saturday, Oct. 13, in universities, laboratories, museums, office buildings, parks and public spaces throughout the Chicagoland

area. More than 85 Chicago science events for children and adults are planned including three neighborhood science carnivals, museum exhibits, demonstrations, hands-on activities, lectures, films and workshops.

The event kicked off Tuesday, Oct. 2, at Daley Plaza in downtown Chicago with the unveiling of the top 10 scientific achievements in Chicago chosen by a panel of scientists and educators, hands-on science and technology activities, an interactive robotics competition and presentations by specialists in the fields of science and technology.

The University of Chicago will sponsor seminars at the campus and science talks by university faculty members to Chicago Public School teachers. Fermilab will host tours of its facilities in Batavia, a Lego engineering workshop for elementary school children and other events.

A complete listing of Chicago Science in the City 2007 events is available online. ■

[www.chicagoscienceinthecity.org](http://www.chicagoscienceinthecity.org)

## Training courses to be offered by DOE Office of Corporate Performance

DEPARTMENT of Energy (DOE) facilities have not been exempt from the introduction of counterfeit items into the supply chain and eventual installation in facilities and systems. In addition to not meeting technical requirements suspect/counterfeit items (S/CI) often represent significant safety hazards. An S/CI prevention program is a contractual requirement for the laboratory.

Training is one significant element to ensuring S/CIs do not make their way into the lab. To this end, the Laboratory will host DOE Office of Corporate Performance from Tuesday, Oct. 16 through Thursday, Oct. 18, to provide two live training courses. They will bring many physical examples of items that have been confiscated at DOE facilities.

For individuals with ESH 273 S/CI Awareness Training as a requirement, attending the DOE courses will fulfill this obligation for three years.

The first course, the Management/ Professional session, which will last four

hours, is geared toward senior management, engineering, procurement and quality assurance personnel. The first half of this session will provide an overview of the regulatory requirements and DOE expectations for S/CI programs throughout the DOE complex. The second half of the session will be geared toward practical applications and recent experiences with S/CI within the DOE complex.

The second S/CI course, which will last two hours, is geared toward craft, operations and inspection personnel to assist in recognizing S/CI. This course provides hands-on training to provide those most likely to be exposed to potential S/CI with the knowledge to recognize these items if they should appear on the Argonne site.

Signup for the courses is through divisional Training Management System representatives.

Multiple sessions of the two courses have been scheduled to provide maximum accommodation of attendees’ schedules. ■

## EQO Division restructured

THE ENVIRONMENTAL, Safety and Health/Quality Assurance Oversight (EQO) Division has been restructured into three separate functional areas: ESH/QA Support, Performance Assurance and Reporting and Radiological Safety.

Separating oversight and reporting functions will improve efficiencies, properly align departments by purpose and establish clearer lines of authority and responsibility. The three groups are:

**ESH/QA Support** – Led by Associate Director Timothy J. Tess, this group comprises the Industrial Hygiene, Environmental Protection, Quality Assurance and Safety departments, and will provide assistance and support to the entire laboratory.

**Performance Assurance and Reporting** – Led by Associate Director Stuart G. Meredith, this group comprises the Assessments, Issues Management, Contractor Assurance, PAAA/851/ORPS and Training departments and will provide oversight and reporting as well as ESH training to the entire laboratory.

**Radiological Safety** – Led by Radiological Safety Officer Gary Zeman, this group comprises the Radiological Safety Services, Radiation Planning & Oversight and Operational Health Physics departments and will provide services and oversight to the entire laboratory.

Tess, Meredith and Zeman will report to Division Director Robert McCook. ■

## Job Hazard Questionnaire

(Continued from page 1)  
(EQO). “Working with Computing and Information Systems to create an electronic version just made sense.”

All Argonne employees have a JHQ, which details the potential hazards they face each day in their work environment. This questionnaire plays an important role in the hazard analysis processes. The electronic JHQ is comprehensive, highly automated and determines what training is required for each employee. “At many other labs the supervisors must do this manually for each employee,” Langenberg said.

The new online version is available now because this is the time of year when employees must review their JHQs. Employees must evaluate new questions as well as decide if any changes need to be made. Previously employees and supervisors had to work with Training Management System (TMS) representatives to update the information, a paperwork-heavy and time-consuming process. The electronic version will not only bring the JHQ to each employee’s desktop, but it will also relieve divisions of requirements for maintaining and filing JHQ records, as well as reduce the paperwork involved.

Employees will be able to access and make changes to their eJHQ in real-time. The system will e-mail their supervisors that changes are ready for review and approval.

“The requirements on supervisors will not change,” said Julie Tossing (EQO). “Instead, the electronic JHQ will allow both supervisors and employees to play a more active role in the JHQ-update process.”

Creating the eJHQ is the first of planned modifications and enhancements to TMS and the JHQ, which will work to each employee’s advantage. ■

## Argonne scientist gave the plenary talk at Royal Society of Chemistry meeting on nanoalloys

JULIUS JELLINEK, a senior scientist at Argonne, delivered the plenary talk of the Faraday Discussion Meeting 138 on Nanoalloys: From Theory to Application held Sept. 3-5, at the University of Birmingham in the United Kingdom.

The Faraday Discussions, which are organized by the Royal Society of Chemistry, the largest organization in Europe for advancing the chemical sciences, are historically of enormous influence in reviewing the current status and shaping new directions in various areas of physical chemistry, chemical physics and bordering disciplines.

In his talk entitled “Nanoalloys: Tuning Structural, Electronic, and Thermal Properties through Size and Composition,” Jellinek reviewed the status of the field and discussed some of the pioneering work he and his collaborators performed at Argonne. The proceedings of the meeting will appear as a volume in the series of Faraday Discussions published by the Royal Society of Chemistry. More details on the meeting can be found at [www.rsc.org/FD138](http://www.rsc.org/FD138). ■

## AARP names Argonne one of best workplaces for workers over 50

ARGONNE has been named one of the best places to work for people over 50 years of age by the AARP.

Argonne ranked 21st of the 50 organizations receiving the 2007 AARP Best Employers for Workers Over 50 designation.

“Focusing on the employee’s personal needs pays dividends,” said AARP Chief Executive Officer Bill Novelli. “It is important that more employers – both large and small – recognize what tremendous assets 50 and over employees represent because of their experience and motivation.”

AARP invites employers to apply for the best employers honor by submitting an application outlining their exemplary policies and practices toward 50-and-over workers. The candidates undergo extensive vetting prior to the final selections. Key areas of consideration are recruiting practices, opportunities for training, education and career development, workplace accommodations, alternative work options, such as flexible scheduling, job sharing and phased retirement, employee health and pension benefits, retiree benefits and age diversity of the workforce.

AARP is a nonprofit, nonpartisan membership organization that helps people over 50 have independence, choice and control in ways that are beneficial and affordable to them and society as a whole. ■

### 10-DIGIT DIALING FOR AREA CODE 630 NOW REQUIRED

Due to increased demand for telephone numbers, a new “overlay” area code – 331 – is now available for the same geographic area as 630. This will require that all calls within the 630 area code that are currently dialed with seven digits to be dialed with 10 digits (1 + 630 + telephone number), a change that began Oct. 7. For example, those who live nearby calling the lab’s general number will need to dial 1-630-252-2000.

These calls will remain priced as local calls regardless of the number of digits dialed.

In addition to this dialing procedure change when making a call, all “preprogrammed automatic dialing” will need to be changed from seven-digit numbers to the new dialing pattern. Some examples of 630 numbers that need to be considered are:

- Fax machines
- Call forwarding numbers
- Speed numbers
- Dial-up data

Automatic dialing for alarms.

This dialing change is not new in the Chicago metro area; 10-digit local dialing occurred with the 847 north Chicago area code several years ago when an “overlay” code was added.

For additional information see the AT&T Web page.

<http://www.att.com/gen/general?pid=1496>





## Latin Grammy-nominated Sones de Mexico Ensemble to perform Thursday, Oct. 11

CHICAGO’S premier Mexican folk music group, Sones de Mexico Ensemble Chicago, will perform at Argonne Thursday, Oct. 11, at noon in the Building 362 Auditorium.

The performance, sponsored by the Argonne Hispanic-Latino Club, is part of the club’s National Hispanic Heritage Month celebration. From Sept. 15 to Oct. 15, America celebrates the culture and traditions of U.S. residents who trace their roots to Spain, Mexico and the Spanish-speaking nations of Central America, South America and the Caribbean.

Sones de Mexico Ensemble Chicago is an ensemble of seasoned Mexican folk musicians and educators. The group formed in 1994 to keep the tradition

of Mexican “son” — large family of regional music and dance styles — alive in its many regional forms, true to its roots and old masters and current and fresh at the same time.

The ensemble’s newest CD, “Esta Tierra Es Tuya” (This Land is Your Land), has been nominated for a 2007 Latin Grammy Award for Best Folk Album.

During the hour-long event, audiences watch as the group works its way through a collection of folk string, percussion and wind instruments, bright four-part vocal arrangements and acrobatic dance demonstrations. The group recreates the atmosphere of a traditional fandango (dance fiesta). ■



### OKTOBERFEST

A lively crowd of more than 100 enjoyed the Argonne Club’s Oktoberfest party Sept. 20 at the Building 617 Lower Level. The Argonne Music Club provided music through its monthly open-mic night, and there were door prizes, a raffle and Oktoberfest-themed food and drink specials.

**LEFT:** Ron Frass plays a polka to the delight of the audience.

**RIGHT:** More than 100 employees and their families and friends enjoyed the Oktoberfest on a warm September evening.

*Photos by Dave Jacqué.*



### ROSE RANGER

Jim Lucas (FMS-Grounds) tends to roses he recently planted outside Building 201. Lucas, who has worked at Argonne for 30 years, takes special pride in the planter garden there. Argonne’s grounds specialists have also installed native prairie plantings around the site, including a new test plot around the Building 201 flagpole. This small area will be used to judge the design and installation process for expansion in the

future. Grounds specialists helping keep the laboratory site beautiful and safe are Lucas, Cindy Tagoe, Anthony Evans, Tammy Wren, Ernest Johnson, Jeff Dyszczakowski, Darrel Cathey, John Carlsen and Art Richardson. Also taking part in the prairie planting project were heavy equipment operators Armando Esquivel and Tom Quick.

**TOP RIGHT:** New England Aster  
**BOTTOM RIGHT:** White Coneflower.  
*Photos by Dave Jacqué.*

### ARTS AT ARGONNE BEGINS 20TH SEASON OF CHAMBER MUSIC

Arts at Argonne, a fine arts program that brings musicians, artists and photographers to the laboratory, has announced its schedule for the 20th season of their chamber music series. The series will run through March 2008 and will feature five concerts.

The next performance of the season will be from acclaimed pianist Mykola Suk, whom the Washington Post said in concert “nearly set the keyboard on fire.” The concert, which will include the music of composers such as Bach and Mendelssohn, will take place on Saturday, Nov. 10 at 8 p.m.

Other concerts to be held in the series include the Hugo Wolf Quartet, Feb. 2, Swedish chamber orchestra Camerata Nordica Mar. 8, and the Vienna Piano Trio will round out the season with a tentative date of Mar. 29.

All concerts cost \$25; a season subscription can be purchased for \$110.

All concerts are open to the public. A valid photo ID is required to enter the laboratory site and visitors need to register prior to

the event. Non-employees (including family members) need a visitor’s pass. Information on how to obtain one is located at [www.anl.gov/ARTS/visitors.html](http://www.anl.gov/ARTS/visitors.html). Due to current regulations, visitors who did not pre-register may be refused access to the site.

More information on each concert, as well as ticket pricing and ordering, can be found on the Arts at Argonne Web page at [www.anl.gov/ARTS/upcoming.html](http://www.anl.gov/ARTS/upcoming.html).

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### GUEST HOUSE TO OFFER DINNER WITH WINES FROM AROUND THE WORLD

The Argonne Guest House will host a wine dinner Friday, Oct. 26, from 6:30 - 8 p.m. Executive Chef Chris Kaminsky will prepare a series of dishes and pair them with complementing wines from around the world.

The centerpiece of the dinner will be a mixed grill of wild boar, loin of lamb, quail on a bed of couscous with Moroccan herbs and spices, accompanied with Massaya Silver Collection from Lebanon and Bandal Classique D. Tempier from France.

Price is \$68 per person.